Figure 1

PhenoSense-HBV: Indicator Gene Viral Vector
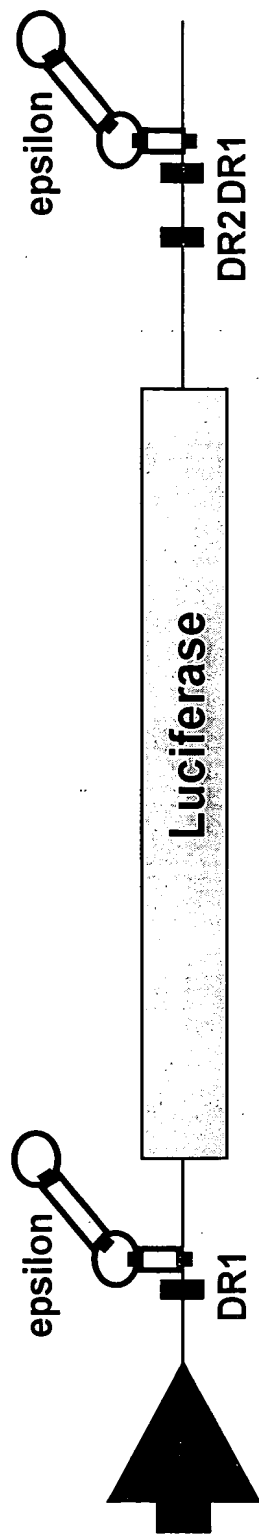
Figure 2

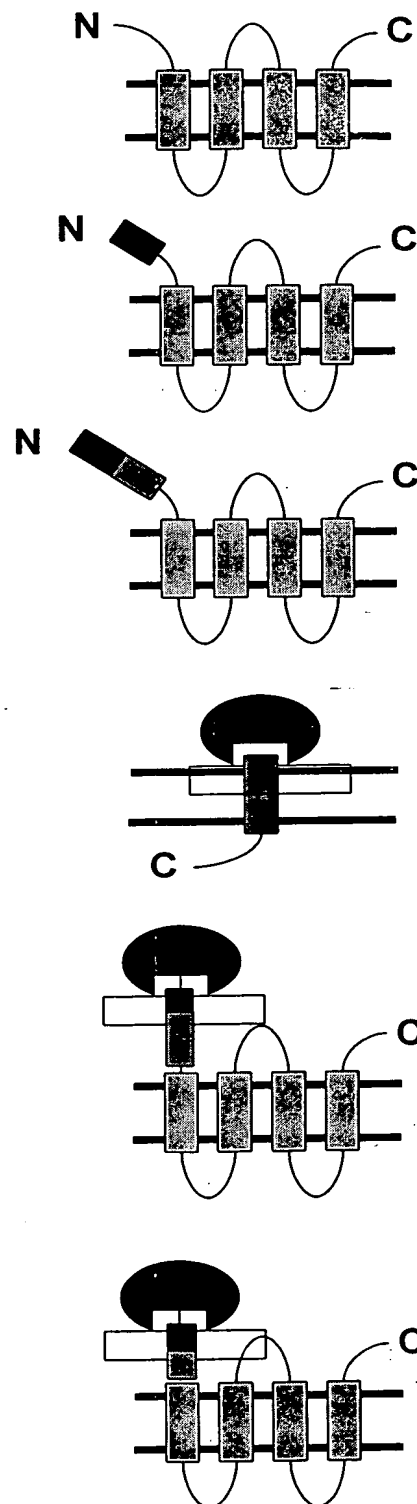## PhenoSense-HBV: Resistance Test Vector
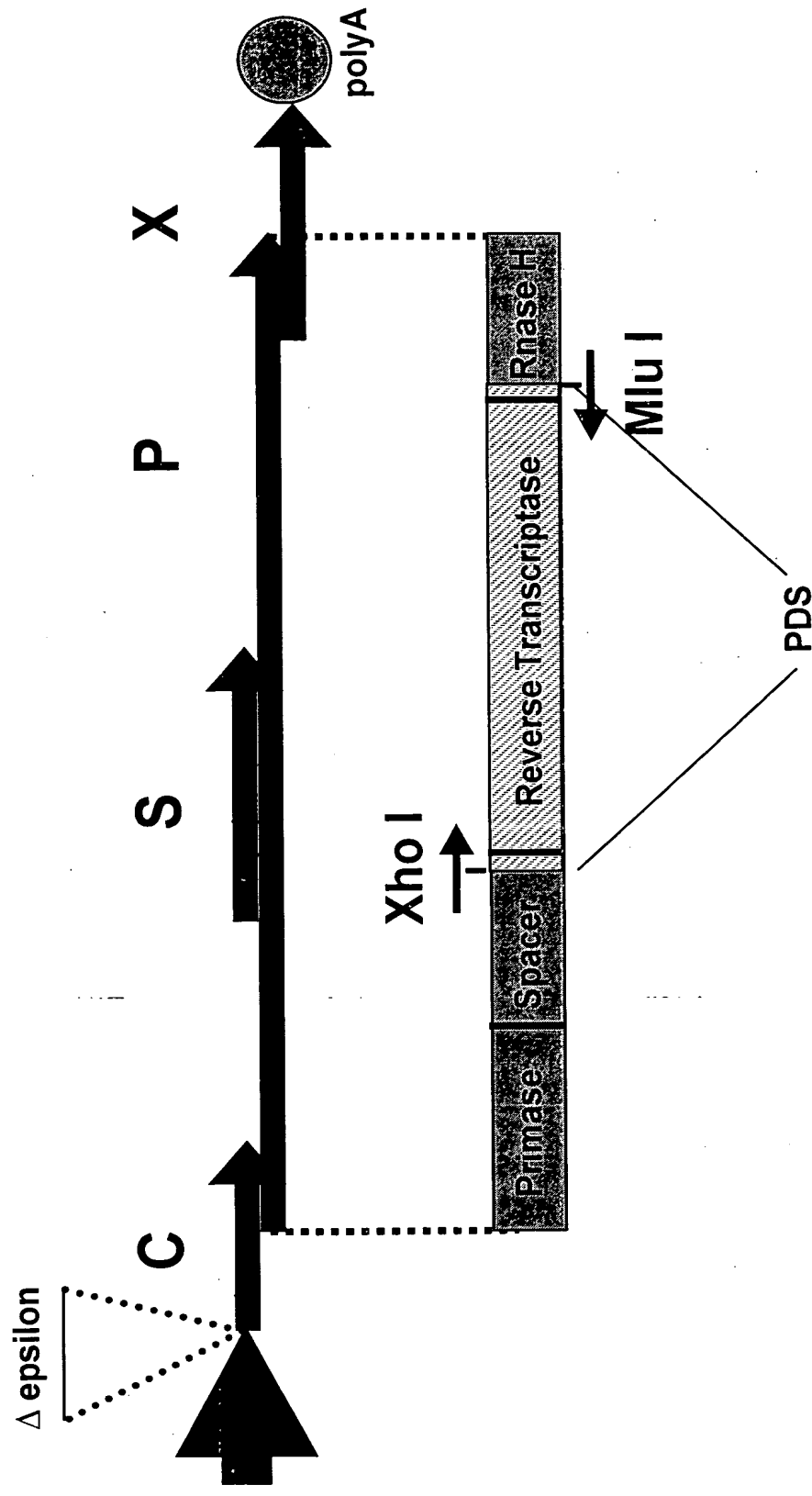
Organization of HBV and HFV envelope proteins

A. HBV env, S, PreS2, PreS1 domains represent the small (S), middle (M), and large (L) surface proteins, respectively
B. HFV SU = surface, TM = transmembrane
C1. Chimeric HBV/HFV env fusion protein with PreS1N-term deletion
C2. Chimeric HBV/HFV env fusion protein with PreS1 N-term deletion and PresS2 C-term deletion